



(11) **EP 3 494 892 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**10.07.2019 Bulletin 2019/28**

(51) Int Cl.:  
**A61B 8/00 (2006.01) G01S 7/52 (2006.01)**

(43) Date of publication A2:  
**12.06.2019 Bulletin 2019/24**

(21) Application number: **18000847.6**

(22) Date of filing: **24.09.2013**

(84) Designated Contracting States:  
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**

• **Samsung Medison Co., Ltd.**  
**Gangwon-do (KR)**

(30) Priority: **24.09.2012 KR 20120105959**  
**23.03.2013 KR 20130026809**

(72) Inventors:  
• **YANG, Eun-ho**  
**Seoul (KR)**  
• **KIM, Hyung-jin**  
**Gangwon-do (KR)**  
• **CHOI, Jin-young**  
**Gangwon-do (KR)**

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:  
**15183958.6 / 2 974 664**  
**13185807.8 / 2 710 960**

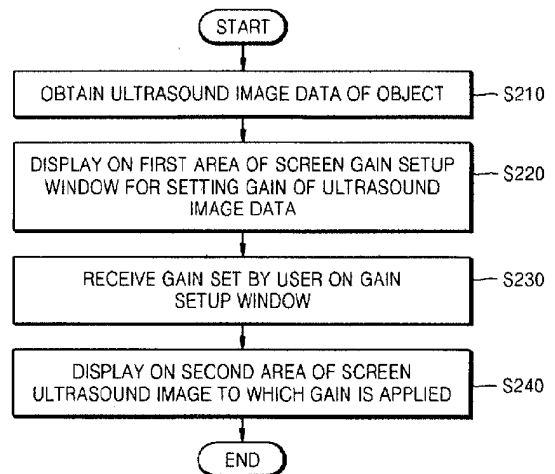
(74) Representative: **Hylarides, Paul Jacques et al**  
**Arnold & Siedsma**  
**Bezuidenhoutseweg 57**  
**2594 AC Den Haag (NL)**

(71) Applicants:  
• **Samsung Electronics Co., Ltd.**  
**Suwon-si, Gyeonggi-do, 443-742 (KR)**

(54) **ULTRASOUND APPARATUS AND INFORMATION PROVIDING METHOD OF THE ULTRASOUND APPARATUS**

(57) An information providing method which is implementable by using an ultrasound apparatus includes obtaining ultrasound image data which relates to an object; displaying, on a first area of a screen, a gain setup window for setting a gain of the obtained ultrasound image data; receiving a gain which is set by a user on the gain setup window; and displaying, on a second area of the screen, an ultrasound image of the object to which the set gain is applied.

**FIG. 2**



**EP 3 494 892 A3**



EUROPEAN SEARCH REPORT

Application Number  
EP 18 00 0847

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2004/015079 A1 (BERGER NOAH [US] ET AL) 22 January 2004 (2004-01-22) * paragraphs [0013], [0020], [0034], [0217], [0265], [0267] - [0268], [0431] - [0437], [0453], [0455]; figures 9,13,15a-b,30,46,47a-b *	1-12	INV. A61B8/00 G01S7/52
A	US 6 468 212 B1 (SCOTT WALTER GUY [US] ET AL) 22 October 2002 (2002-10-22) * column 1, line 46 - line 65; claims 1-2; figures 1,2,3a-b,4a-c,7,14,17-19,25 * * gain applied to the image; column 4, line 43 - line 53 * * column 6, line 11 - line 15 * * column 6, line 61 - column 7, line 28 * * column 8, line 37 - line 67 * * page 1, line 8 - line 11 * * column 3, line 58 - column 4, line 31 *	1-12	
A	US 5 482 045 A (RUST DAVID W [US] ET AL) 9 January 1996 (1996-01-09) * column 3, line 20 - column 4, line 46; figures 1-5 *	1-12	TECHNICAL FIELDS SEARCHED (IPC) A61B G01S
A	US 2009/043195 A1 (POLAND MCKEE D [US]) 12 February 2009 (2009-02-12) * paragraphs [0054] - [0056]; figures 4a-4c *	1-12	
A	US 5 315 999 A (KINICKI RACHEL M [US] ET AL) 31 May 1994 (1994-05-31) * column 4, line 14 - line 27; figure 2 * * column 5, line 29 - column 6, line 3; figure 3a * * column 6, line 36 - column 9, line 18; figure 5 *	1-12	
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>31 May 2019</b>	Examiner <b>Daoukou, Eleni</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 18 00 0847

5

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

31-05-2019

10

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004015079 A1	22-01-2004	US 2004015079 A1 US 2014051984 A1	22-01-2004 20-02-2014
US 6468212 B1	22-10-2002	NONE	
US 5482045 A	09-01-1996	AT 189315 T DE 69514749 D1 DE 69514749 T2 EP 0707221 A1 JP H08206112 A US 5482045 A	15-02-2000 02-03-2000 17-08-2000 17-04-1996 13-08-1996 09-01-1996
US 2009043195 A1	12-02-2009	CN 101040245 A EP 1817653 A1 JP 2008515583 A US 2009043195 A1 WO 2006040697 A1	19-09-2007 15-08-2007 15-05-2008 12-02-2009 20-04-2006
US 5315999 A	31-05-1994	DE 4406079 A1 JP H06319733 A US 5315999 A	27-10-1994 22-11-1994 31-05-1994

15

20

25

30

35

40

45

50

55

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82